6BJ6

# 6BJ6
# REMOTE-CUTOFF PENTODE

7-PIN MINIATURE TYPE

## GENERAL DATA

**Electrical:**

Heater, for Unipotential Cathode:

| | | | |
|---|---|---|---|
| Voltage | 6.3 | | ac or dc volts |
| Current | 0.15 | | amp ← |

Direct Interelectrode Capacitances:

| | Without External Shield | With External Shield° | |
|---|---|---|---|
| Grid No.1 to plate | 0.0035 max. | 0.0035 max. | μμf |
| Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater | 4.5 | 4.5 | μμf |
| Plate to cathode, grid No.3 & internal shield, grid No.2, and heater | 5.5 | 5.5 | μμf |

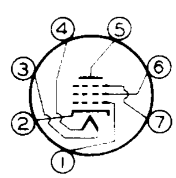
**Characteristics, Class A₁ Amplifier:**

| | | | |
|---|---|---|---|
| Plate Voltage | 100 | 250 | volts |
| Grid No.3 (Suppressor) | *Connected to cathode at socket* | | |
| Grid-No.2 Voltage | 100 | 100 | volts |
| Grid-No.1 Voltage | -1 | -1 | volt |
| Plate Resistance (Approx.) | 0.25 | 1.3 | megohm |
| Transconductance | 3650 | 3600 | μmhos ← |
| Plate Current | 9 | 9.2 | ma |
| Grid-No.2 Current | 3.5 | 3.3 | ma |
| Grid-No.1 Voltage (Approx.) for transconductance of 10 μmhos | -20 | -20 | volts ← |

**Mechanical:**

| | |
|---|---|
| Mounting Position | Any |
| Maximum Overall Length | 2-1/8" |
| Maximum Seated Length | 1-7/8" |
| Length, Base Seat to Bulb Top (Excluding tip) | 1-1/2" ± 3/32" |
| Maximum Diameter | 3/4" |
| Dimensional Outline | *See General Section* |
| Bulb | T-5-1/2 |
| Base | Small-Button Miniature 7-Pin (JETEC No.E7-1) ← |
| Basing Designation for BOTTOM VIEW | 7CM |

Pin 1 - Grid No.1
Pin 2 - Cathode
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate




Pin 6 - Grid No.2
Pin 7 - Grid No.3, Internal Shield

° With external shield JETEC No.316 connected to cathode.

← Indicates a change.



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**AMPLIFIER - Class A₁**

**Maximum Ratings,** *Design-Center Values:*

| | | |
|---|---|---|
| PLATE VOLTAGE | 300 max. | volts |
| GRID-No.2 (SCREEN) SUPPLY VOLTAGE | 300 max. | volts |
| → GRID-No.2 VOLTAGE | *See Grid-No.2 Input Rating Chart at front of Receiving Tube Section* | |
| GRID-No.1 (CONTROL-GRID) VOLTAGE: | | |
| Negative bias value | 50 max. | volts |
| Positive bias value | 0 max. | volts |
| PLATE DISSIPATION | 3 max. | watts |
| → GRID-No.2 INPUT: | | |
| For grid-No.2 voltages up to 150 volts | 0.6 max. | watt |
| For grid-No.2 voltages between 150 and 300 volts | *See Grid-No.2 Input Rating Chart at front of Receiving Tube Section* | |
| PEAK HEATER-CATHODE VOLTAGE: | | |
| Heater negative with respect to cathode | 90 max. | volts |
| Heater positive with respect to cathode | 90 max. | volts |

→ Indicates a change.



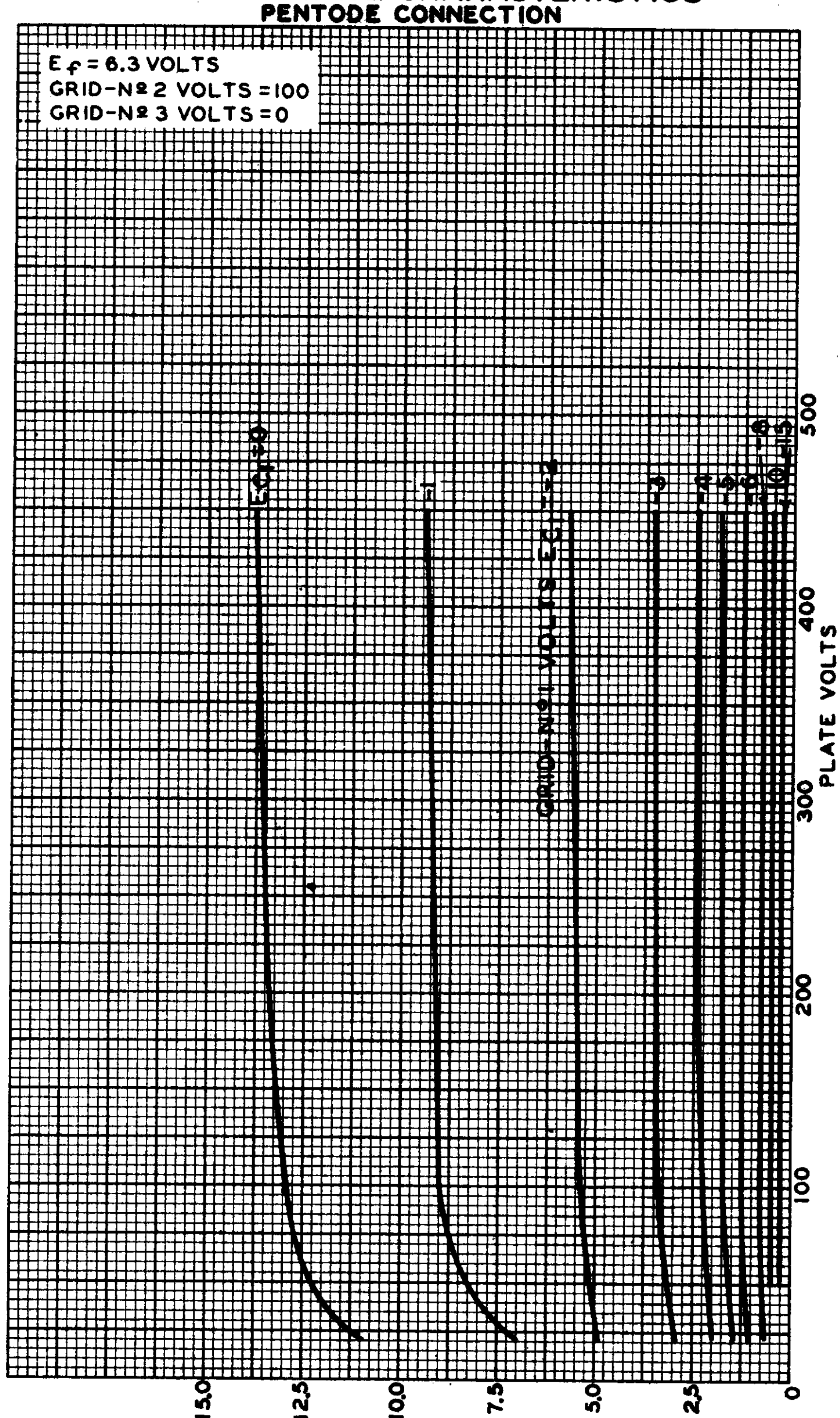
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## AVERAGE PLATE CHARACTERISTICS

### PENTODE CONNECTION




MAY 29, 1947

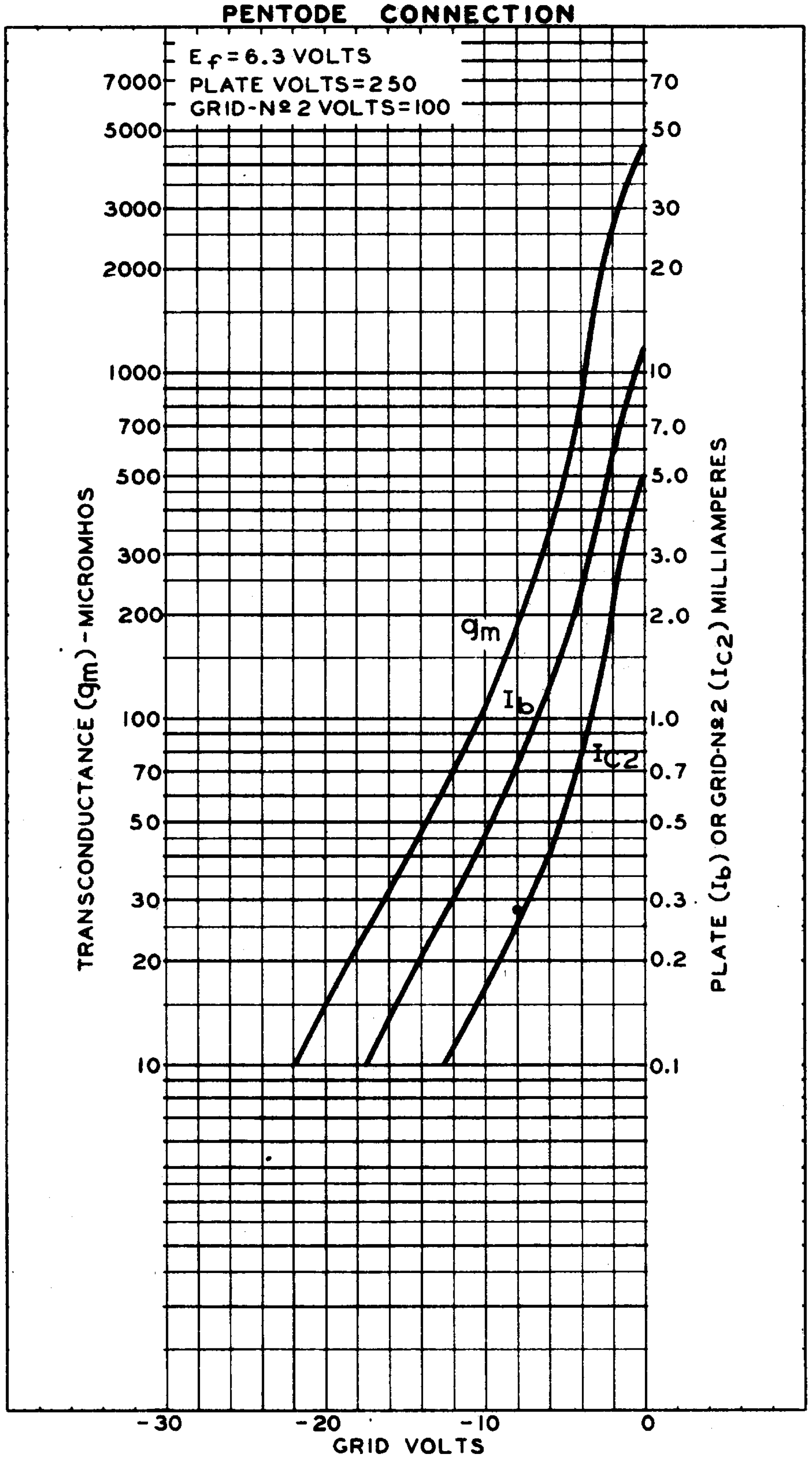
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## AVERAGE CHARACTERISTICS
### PENTODE CONNECTION




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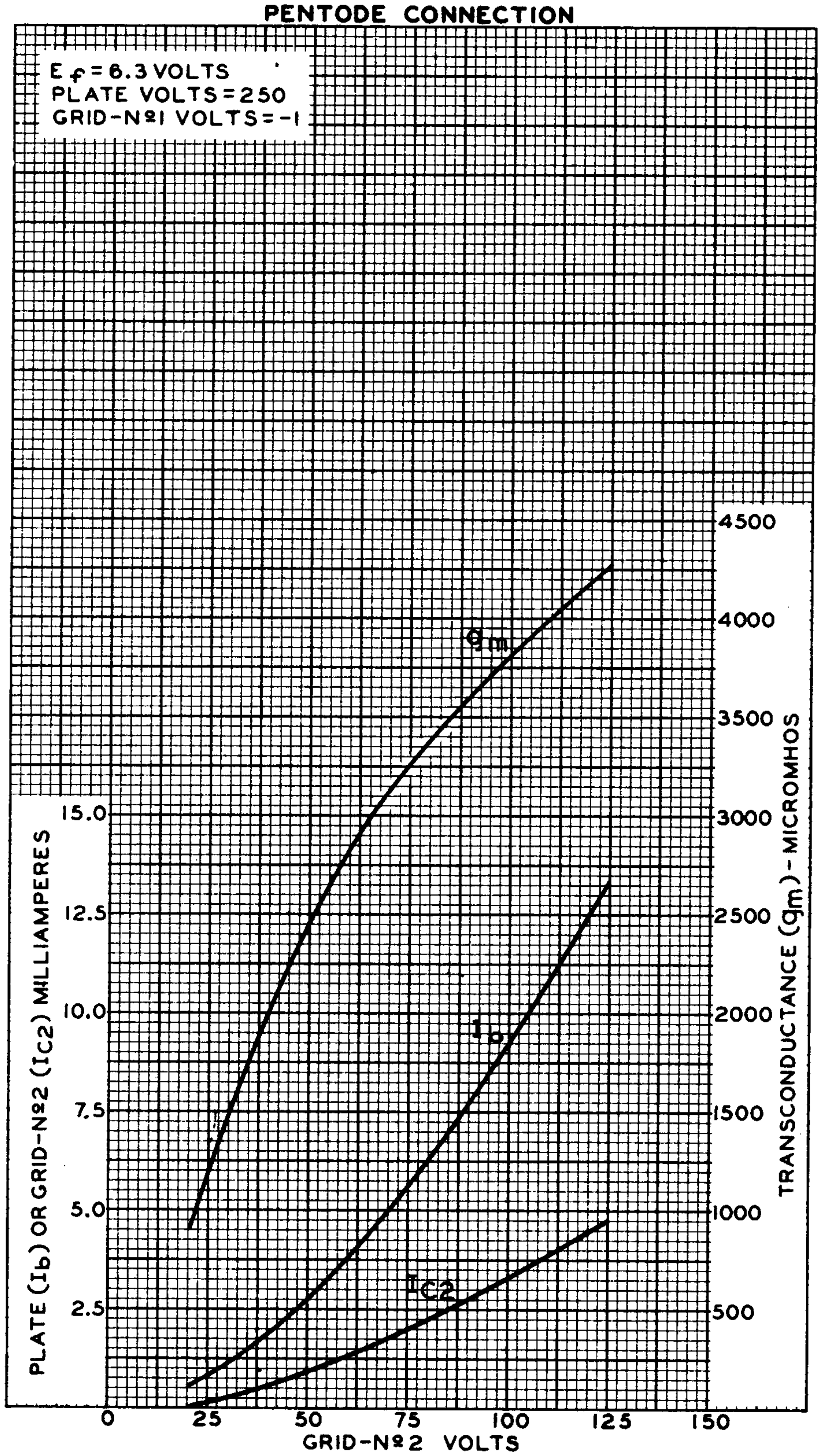
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# AVERAGE CHARACTERISTICS
## PENTODE CONNECTION




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